

Description

The B5819 is schottky barrier diode, SOD-123 plastic package.

Features

- Low positive pressure drop
- Halogen-free product

V_{RM}	I_F	I_{FSM}
40 V	1A	25 A

Equivalent Circuit & Pinning



PIN1:Cathode

PIN2:Anode

Marking

Model	B5819LW
Marking	SL

Maximum Rating & Thermal Characteristics(Ta=25°C)

Parameter	Symbol	Rating	Unit
Maximum Repetitive Peak Reverse Voltage	V_{RRM}	40	V
Maximum RMS voltage	$V_{R(RMS)}$	28	V
Maximum DC Blocking Voltage	V_{DC}	40	V
Maximum Average Forward Rectified Current	$I_{F(AV)}$	1	A
Peak Forward Surge Current, 8.3ms Single Half Sine-wave Superimposed On Rated Load (JEDEC method)	I_{FSM}	25	A
Typical Junction Capacitance	C_j	110	pF
Junction and Storage Temperature Range	T_J, T_{stg}	-55 to 125	°C

Electrical Characteristics(Ta=25°C)

Parameter	Symbol	Test Conditions	Rating			Unit
			Min	Typ	Max	
Forward Voltage	V_F	$I_F=100mA$		0.23	0.315	V
		$I_F=500mA$		0.3	0.385	
		$I_F=1A$		0.365	0.41	
Maximum Instantaneous Reverse Current at Rated DC Reverse Voltage	I_R	$T_A = 25^\circ C$			1	mA
		$T_A = 100^\circ C$			10	

Electrical Characteristic Curve

Fig.1 Forward Current Derating Curve

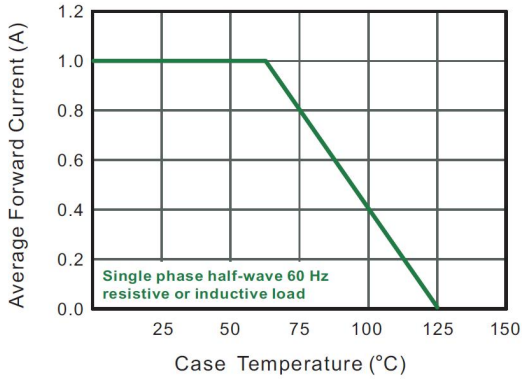


Fig.2 Typical Reverse Characteristics

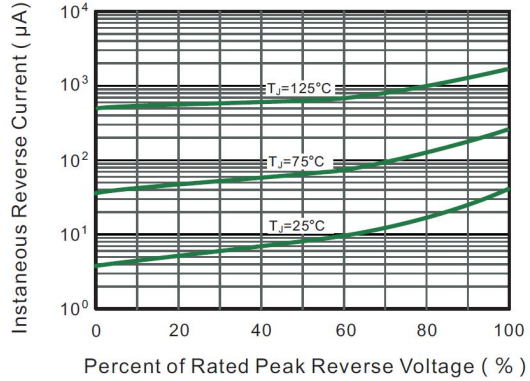


Fig.3 Typical Forward Characteristic

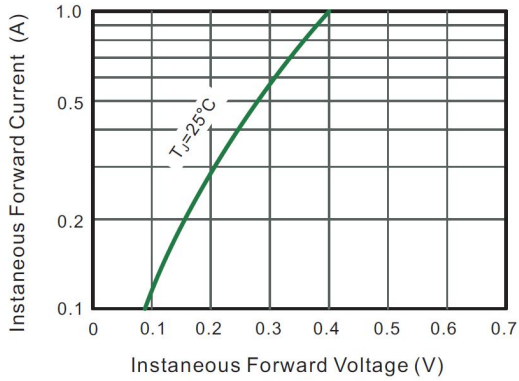


Fig.4 Typical Junction Capacitance

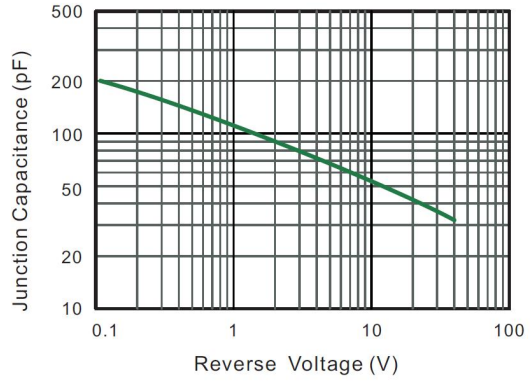
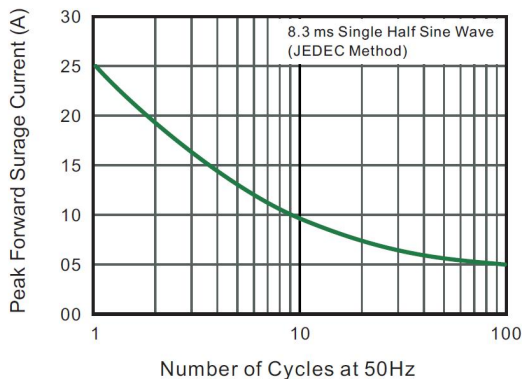


Fig.5 Maximum Non-Repetitive Peak Forward Surge Current



Marking instructions



Note:

SL: Product Type.

Package Outline Dimensions

